

Fig. 1

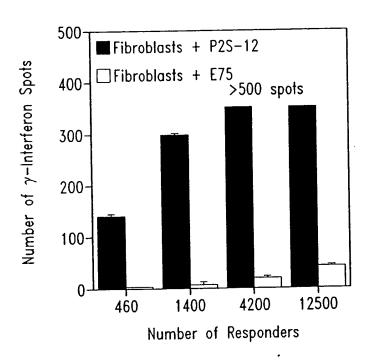


Fig. 2A

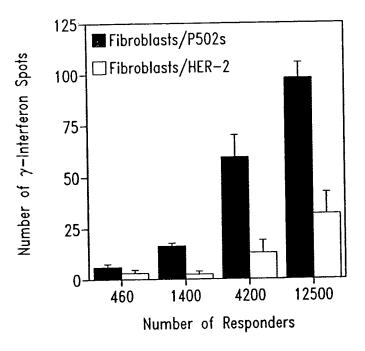


Fig. 2B

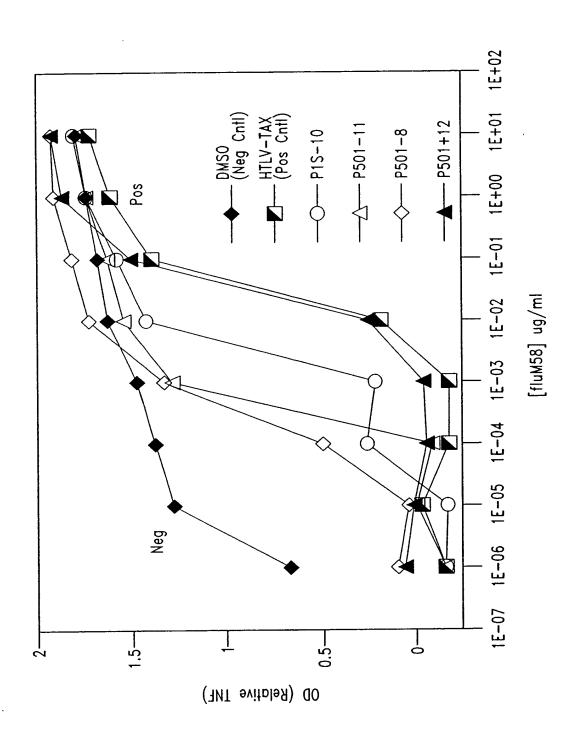


Fig. 3

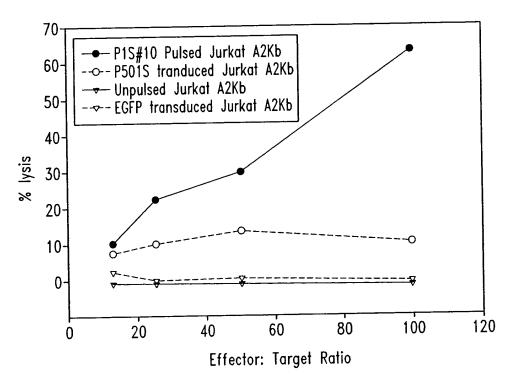


Fig. 4

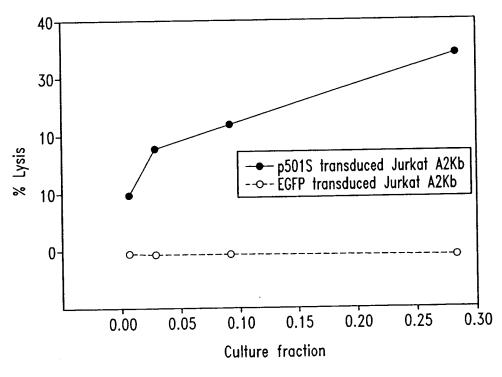


Fig. 5

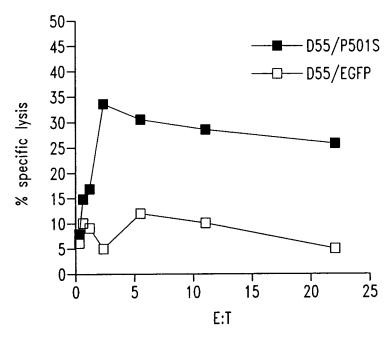


Fig. **6A** 

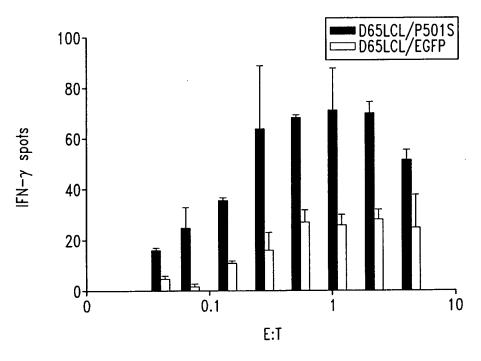
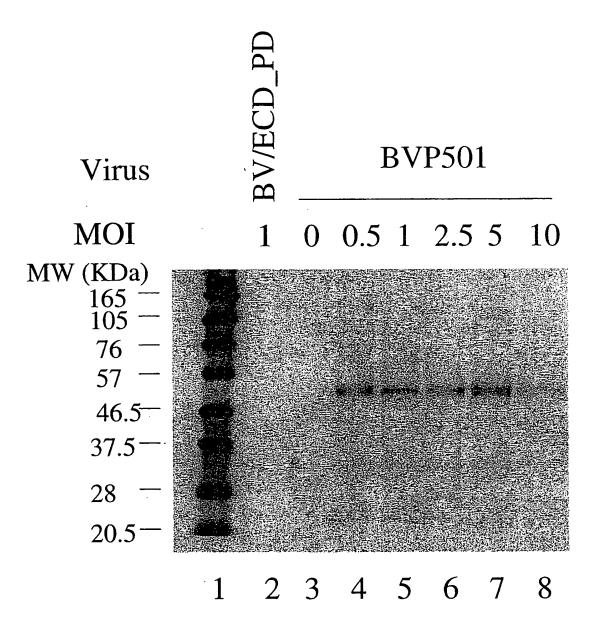


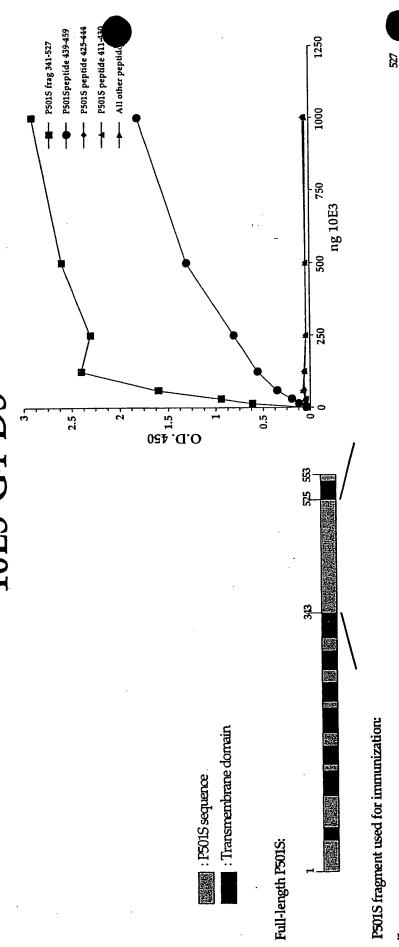
Fig. **6B** 

#### Expression of P501S by the Baculovirus Expression System



0.6 million high 5 cells in 6-well plate were infected with an unrelated control virus BV/ECD\_PD (lane 2), without virus (lane 3), or with recombinant baculovirus for P501 at different MOIs (lane 4 – 8). Cell lysates were run on SDS-PAGE under the reducing conditions and analyzed by Western blot with a monoclonal antibody against P501S (P501S-10E3-G4D3). Lane 1 is the biotinylated protein molecular weight marker (BioLabs).

### Figure 8. Mapping of the epitope recognized by 10E3-G4-D3



MDRLVQRGTRAYYLASVA
YLASVAHPVARGATICISHS
ALTGTTSALQILYTILASL
YLASVAHPVARG
YLASVAHPVARG
YLASVAHPVARG
YTLASVAHPRARG
DSLAUSTPGRAGARTICAPPRAG
499 ARTINGF

BNGSVQ.SQSVTAYMASAA LIDGAFL.SQVAPSLPAGSIV BNSVRVVVQPPTBARVPQR 699 APTINGHVQAGGSGLIPIPAA.99

9

## transmembrane, cytoplasmic, and extracellular regions Figure 17. Schematic of P501S with predicted

ANY SALAWANI KITIKA AQILLIYANLETITIYA VOOTI YARAHAA TILAGA TALAHALAI OLOPALAHAA SALAKAAA

DHWRGRYGRRRP ELWALSLOILLSLOIGBRAGIYL AGLLCPDPRIF LALLILGYGLLDFCGQYCFTPL

*enlindepropiero*, aysyyaibiislooceoren dwiyealapylooge

CLEGILITERECYNATILY Abbaar optibrabotsapsysphocycharkafrmlöall pri

HELECHARPHER LIPAGE CYMMAI AFFEL YTTPF YGEGLYDOYPIAARGEARARIYDYGYR

MGBLGLITLOGAISLYFSLYM DRIVQRFGTRAVITAS YAAITYAAGATGLSHSYAXXITA SAA

LTGETTSAL<u>olle</u>YTLASLY *hrekqvelpkyroptgesssedstatselpgpkpgapfpnghygaggsgl* 

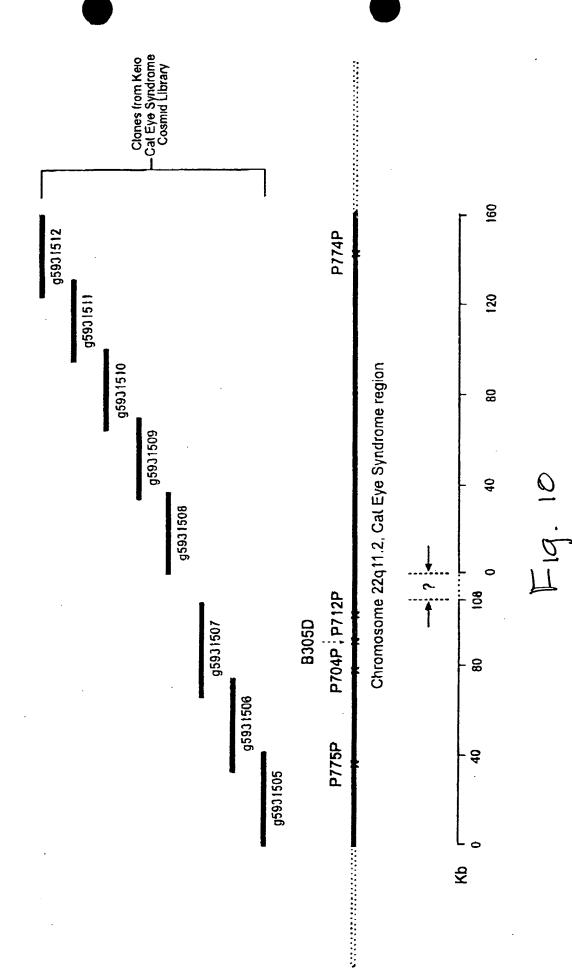
LPPPALCOASACDVSVRVVGEPTEARVVPGRO ICLDIAMEDSACILLSQVAPSLE MGSIVQLSQS

Yfaymysaagleilyalyfat *qyyfdksdlak*ysa

Haliv sequence: Pradicted intracellular domain. Sequence in bold/undarlined: used to generale polyclonal rabbit serum Underlined segmence: Predicted transmembrane domain; Bold sequence: Predicted extracellular domain;

Coverning Amino Acid Composition of Integral Membrane Proteins: Applications to topology Prediction.J.Mol Biol. 283, Localization of domains predicted using HMMTOP (C.E. Tusnady and L. Simon (1998) Principles

# Genomic Map of (5) Corixa Candidate Genes



#### FIGURE 4. Elisa assay of rabbit polyclonal antibody specificity

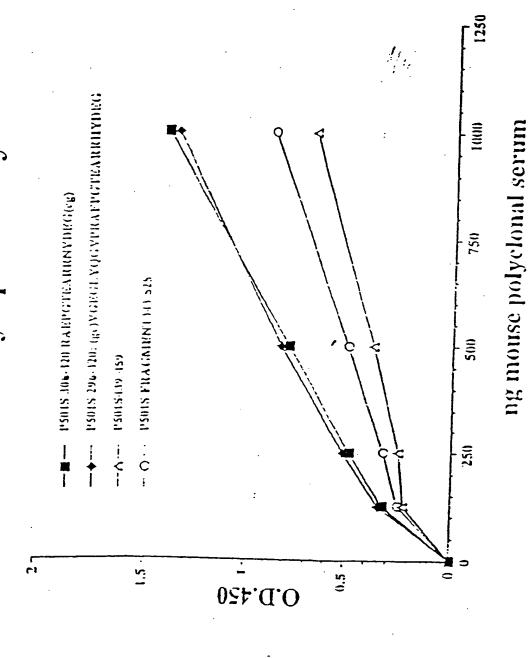


Fig. 11

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10 30 40 50 20 60 70 GTCACTTAGGAAAAGGTGTCCTTTCGGGCAGCCGGGCTCAGCATGAGGAACAGAAGGAATGACACTCTGG 70 ACAGCACCCGGACCCTGTACTCCAGCGCGTCTCGGAGCACAGACTTGTCTTACACTGAAAGCGACTTGGT GAATTTTATTCAAGCAAATTTTAAGAAACGAGAATGTGTCTTCTTTACCAAAGATTCCAAGGCCACGGAG 210 AATGTGTGCAAGTGTGGCTATGCCCAGAGCCAGCACATGGAAGGCACCCAGATCAACCAAAGTGAGAAAT 280 GGAACTACAAGAAACACAECAAGGAATTTECTAEEGAEGCETTTGGGGATATTCAGTTTGAGACACTGGG 350 360 370 38C 390 400 410 420 GAAGAAÄGGGAAGTATATACGTCTGTCCTGCGACACGGGCGGGAAATCCTTTACGAGCTGCTGACCCAG 420 CACTGGCACCTGAAAACA CCCAACCTGGTCATTTCTGTGACCGGGGGGCGCCAAGAACTTCGCCCTGAAGC 490 CGCGCATGCGCAAGATCTTCAGCCGGCTCATCTACATCGCGCAGTCCAAAGGTGCTTGGATTCTCACGGG 560 GAGGAGAATATTGTGGCCATTGGCATAGCAGCTTGGGGCATGGTCTCCAACCGGGAJACCCTCATCAGGA 700 7:10 730 720 740 750 760 77C ATTGCGATGCTGAGGGCTATTTTTTAGCCCAGTACCTTATGGATGACTTCACAAGGGATCCACTGTATAT 770 CCTGGACAACAACACACACATTTGCTGCTEGTSGATAATGGCTGTCATGGACATCCCACTGTCGAAGCA 840 AAGCTCCGGAATCAGCTAGAGAAGCATATCTETGAGCGEACTATTCAAGATTCCAACTATGGTGGCAAGA 910 TCCCCATTGTGTGTTTTGCCCAAGGAGGTGGAAAAGAGACTTTGAAAGCCATCAATAGCTCCATCAAAA Q TAAAATTESTTGTGTGGGGGGGAAGGCTCGGGGCGGATCGCTGATGTGATCGCTAGCCTGGTGGAGGTG 1050 i=i 1060 1070 1080 1090 1100 GAGGATGCCCGACATCTTCTGCCGTCAAGGAGAAGCTGGTGCGCTTTTTACCCCGGCACGGTGTCCCGGC 1120 TGTCTGAGGAGGAGACTGAGAGTTGGATCAAATGGCTCAAAGAATTCTCGAATGTTCTCACCTATTAAC 1190 AGTTATTAAAATGGAAGAAGCTGGGGATGAAATTGTGAGCAAFGCCATCTCCTACGCTCTATACAAAGCC 1260 TICAGCACCAGIGAGCAAGACAAGGATAACIGGAATGGGC+GCIGAAGCIICIGCIGGAGIGGAACCAGC 1330 TGGAETTAGCCAATGATGAGATTTTCACCAATGACCGCCGATGGGAGTCTGCTGACCTTCAAGAAGTCAT 14CO 141C 1429 1430 1440 145C 1460 1470 <del>malandan kanlanten bartan barta</del> GTTTACGGCTCTCATAAAGGACAGACCCAAGTTTGTCCGCCTCTTTCTGGAGAATGGCTTGAACCTAGGG AAGTTTCTCACCCATGATGTCCTCACTGAACTCTTCTCCAACCACTTCAGCACGCTTGTGTACCGGAATC TGCAGATCGCCAAGAATTCCTATAATGATGCCCTCCTCACGTTTGTCTGGAAACTGGTTGCGAACTTCCG AAGAGGCTTCCGGAAGGAAGACAGAAATGGCCGGGACGACGACGTCTCCCT ATTACTCGGCACCCCTGCAAGCTCTCTTCATCTGGGCCATTCTTCAGAATAAGAAGGAACTCTCCAAAG 1750 1760 178C 1790 1800 TCATTTGGGAGCAGACCAGGGGCTGCACTCTGGC4GCCTGCGAGCCAAGCTTCTGAAGACTCTGGC 1950 CAAAGTGAAGAACGACATCAATGCTGCTGGGG4GTCCGAGGAGCCTGGCTAATGAGTACGAGACCCGGGGT GTTGAGCTGTTCACTGAGTGTTACAGCAGCGATG+4GACTTGGCAGAACAGCTGCTGGTCTATTCCTGTG 1960 AAGCTTGGGGTGGAAGCAACTSTCTGGAGCTGGGGGTGGAGGCCAGCAGCAGCAGCATTTCACGGCCCAGCC 2030 TGGGGTCCAGAATTTTCTTTCTAAGCAATGGIAFGGAGACTTCCCGAGACCAAGAACTGGAAGATT 2100

2170 2160 2150 2140 213C 2120 2110 TECTGTGTETGTTTATTATACE TGGTGGGCTGTGGCTTTGTATCATTTAGGA AAACCTGTCGACA 2170 AGCACAAGAAGCTGCTTTGGTACTATGTGGCGTTCTTCACCTCCCCCTTCGTGGTCTTCTCCTGGAATGT 2240 GGTCTTCTACATCGCCTTCCTCCTGCTGTTTGCCTACGTGCTGCTCATGGATTTCCATTCGGTGCCACAC 2310 CCCCCGAGCTGCTCCTGTACTCCCTGGTGTTTGTCCTCTTCTGTGATGAAGTGAGACAGTGGTACGTAA 2380 ATGGGGTGAATTATTTTACTGACETGTGGAATGTGATGGACACGCTGGGGCTTTTTTACTTCATAGCAGG 2450 2520 2510 2490 2500 248C 2470 and and make a land and a second and the second and TACATTATTTCACTCTAAGATTGATCCACATTTTTACTGTAAGCAGAAACTTAGGACCCAAGATTATAA 2590 TGCTGCAGAGGAIGCTGATCGATGTGTTCTTCTTGTTCCTGTTCCTCTTTGCGGTGTGGATGGTGGCCTTTGG 2660 CGTGGCCAGGCAAGGGATCCTTAGGCAGAATGAGCAGCGCTGGAGGTGGATATTCCGTTCGGTCATCTAC 2730 GAGCCTACCTGGCCATGTTCGGCCAGGTGCCCAGTGACGTGGGTACCACGTATGACTTTGCCCACT 2800 2870 2860 2840 2850 2830 2820 عبيانية السالين المسالية المسا j 2810 GCACCTTCACTGGGAATGAGTCCAAGCCACTGTGTGGAGCTGGATGAGCACAACCTGCCCGGTTCCC 2870 CGAGTGGATCACCATCCCCCTGGTGTGCATCTACATGTTATCCACCAACATCCTGCTGGTCAACCTGCTG 2940 GTCGCCATGTTTGGCTACACGGTGGGCACGGTCCAGGAGAACAATGACCAGGTCTGGAAGTTCCAGAGGT 3010 ACTICOT SGIGCAGGAGI ACTGCAGCCGCCTCAATATCCCCCTTCCCCTTCATCGTCTTCGCCTACTTCTA 3080 3200 3:90 3:30 3170 and the selection of th AAAAATGAAGACAATGAGACTCTGGCATGGGAGGGTGTCATGAAGGAAAACTACCTTGTCAAGATCAACA 322C CAAAAGCCAACGACACCTCAGAGGAAATGAGGCATUGATTTAGACAACTGGATACAAAGCTTAATGATCT 329C CAAGGGTOFTCTGAAAGAGATTGGTAATAAATCAAATAAAGTGTATGAAACTCTAATGGAGAAAAATC 3360 TAATTATAGCAAGATCATATTAAGGAATGCTGATGAACAATTTTTGCTATCGACTACTAAATGAGAGATTT 3430 TCAGACCCCTGGGTAC4TGGTGGATG4TTTTAAATCACGCTAGTGTGGTGAGACCTTGAGAATAAAGTGT 3500 357C 3550 , 3540 3530 3520 351C derekenden dereken dereken bereken bereken bereken bereken derek GIGATIGGTTICATACTTGAAGACGGATATALAGGAAGAATATTTCCTTTATGTGTTTCTCCAGAATGGT 3570 GCCTSTTTCTCTCTGTGTGTCTCAATGCCTGGGAGGTTGATAGTTTAAGTGTGTTCTTACCGCCTCC 3690 TTTTTCCTTTAATCTTATTTTTGATGAACACATATATAGGAGAACATCTATCCTATGAATAAGAACCTGG 3710 TCATGCTTTACTCCTGTATTGTTATTTTGTTCATTTCCAATTGATTCTCTACTTTTCCCTTTTTTGTATT 3780 ATGTGACTAATTAGTTGGCATATTGTTAAAAGTCTCTCAAATTAGGCCAGATTCTAAAACATGCTGCAGC 3850 3900 3890 3880 3870 3860 AAGAGGACCCCGCTCTCTCAGGAAAAGTGTTTTCATTTCTCAGGATGCTTCTTACCTGTCAGAGGAGGT 3920 GACAAGGCAGTETCTTGCTCTCTTGGACTSASSAGGCTCSTATTGAAGGAASCACCCCCATTCCTAAATA 3990 TGTGAAAAGTCGCCCAAAATGCAACGTTGAAAGGCACTAGTGACTTTGTTCTTATTGGATACTCCTGTTA 4060 TTTATTATTTTTCCATTAAAAAAAAAAAATTAGAAAATTTAGACCATACAGAGATGTAGAAA 413C GAACATAAATTGTCCCCATTACCTTAAGGTAATCACTGCTAACAATTTCTGGATGGTTTTTCAAGTCTAT 4200 4270 4250 4260 2240 **#230** 4220 4210 and the state of t TTATGTAAGCTTTTTCACTTAGTATTTTATCAAATATGTTTTTATTATATTCATAGCCTTCTTAAACATT 4340 ATATCAATAATTGCATAATAGGCAACCTCT4GCGATT4CCATAATTTTGCTCATTGAAGGCTATCTCCAG 4410 TTGATCATTGGGATGAGCATUNETGTGCATGAATCCTATTGCTGTATTTGGGAAAATTTTCCAAGGTTAG 4480 ATTOCAATAAATATOTATTATTATTAAATATTAAATATCGATTTATTATTAAAACCATTTATAAGGGCT 4550

4580 4620 4590 4600 4610 4570 4560 TGAACCTGAACT 4620 AATTATTAACTTGAGCATAAGATATGAGAT TTTTCATAAATGTATAGCAAATA CTAGTTTAAGAAGAAGTCAATATGCTTAT AATATTATGGAT 4690 **ATTAAAATAAAATATATATTA** GGTGGGCAGATCACTTGAGGTCAGGAGTTCGAGACCAGCCTGGCCAACATGGCAAAACCACATCTCTACT 4760 AAAAATAAAAAAATTAGCTGGGTGGTGGTGCACTCCTGTAATCCCAGCTACTCAGAAGGCTGAGGTAC 4830 AAGAATTGCTGGAACCTGGGAGGCGGAGGTTGCAGTGAACCAAGATTGCACCACTGCACTCCAGCCGGGG 4900 4940 4930 4950 4960 4920 4910 استاسياساساساساسا ATGGTGAAGGGAATGGTATAGAATTGGAGAGATTATCTTACTGAACACCTGTAGTCCCAGCTTTCTCTGG 5040 AAGTGGTGGTATTTGAGCAGGATGTGCACAAGGCAATTGAAATGCECATAATTAGTTTCTCAGCTTTGAA 5110 CTACAAAAGCATTAACTAAAAAAGTTTATTTTCCTTTTGTCTGGGCAGTAGTGAAAATAACTACTCACAA 5250 5280 5290 5300 5310 5320 5270 5260 . . ] . . . . ] CATTCACTATGTTTGCAAGGAATTAACACAAATAAAAGATGCCTTTTTACTTAAACGCCAAGACAGAAAA 5320 CTTGCCCAATACTGAGAAGCAACTTGCATTAGAGAGGGAACTGTTAAATGTTTTCAACCCAGTTCATCTG 5390 GTGGATGTTTTTGCAGGTTACTCTGAGAATTTTGCTTATGAAAAATCATTATTTTTAGTGTAGTTEACAA 5460 TARTGTATTGARCATACTTCTAATCAAAGGTGCTATGTCCTTGTGTATGGTACTAAATGTGTCCTGTGTA 5530 5640 5650 563C 5660 5670 5620 5610 

Fig. 12A(3)

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